APPENDIX A: CLEAN COPY OF CLAIMS

1. Seed of corn inbred line designated LH246, representative seed of said line having been deposited under ATCC Accession No. _____.
2. A corn plant, or parts thereof, produced by growing the seed of claim 1.
3. Pollen of the plant of claim 2.
4. An ovule of the plant of claim 2.
5. A corn plant, or parts thereof, having all of the physiological and morphological characteristics of the corn plant of claim 2.
6. The corn plant of claim 2, wherein said plant is further defined as comprising a gene conferring male sterility.
7. A tissue culture of regenerable cells from the corn plant of claim 2.
8. The tissue culture according to claim 7, the cells or protoplasts of the tissue culture having been isolated from a tissue selected from the group consisting of leaves, pollen, embryos, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.
9. A corn plant regenerated from the tissue culture of claim 7, wherein the regenerated plant expresses all the morphological and physiological characteristics of inbred line LH246.
10. A corn plant with all of the physiological and morphological characteristics of corn inbred LH246, wherein said corn plant is produced by a tissue culture process using the corn plant of claim 5 as the starting material for said process.
11. A method for producing a hybrid corn seed comprising crossing a first inbred parent corn plant with a second inbred parent corn plant and harvesting the resultant hybrid corn seed, wherein said first inbred parent corn plant or second said parent corn plant is the corn plant of claim 2.
17. A method for producing inbred LH246 seed, representative seed of which have been deposited under ATCC Accession No. _____, comprising:
    a) planting a collection of seed comprising seed of a hybrid, one of whose parents is inbred LH246, said collection also comprising seed of said inbred;
    b) growing plants from said collection of seed;
    c) identifying inbred parent plants;

d) controlling pollination in a manner which preserves the homozygosity of said inbred parent plant; and

e) harvesting the resultant seed.

18. The process of claim 17 wherein step (c) further comprises identifying plants with decreased vigor.

19. A method for producing a LH246-derived corn plant, comprising:

a) crossing inbred corn line LH246, representative seed of said line having been deposited under ATCC accession number _____, with a second corn plant to yield progeny corn seed; and

b) growing said progeny corn seed, under plant growth conditions, to yield said LH246-derived corn plant.

24. The method of claim 19, still further comprising utilizing plant tissue culture methods to derive progeny of said LH246-derived corn plant.